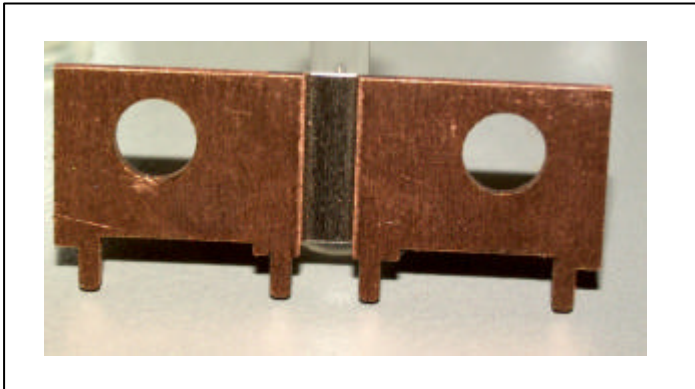


CUMnNi – precision resistors for energy metering Type series EM-SH



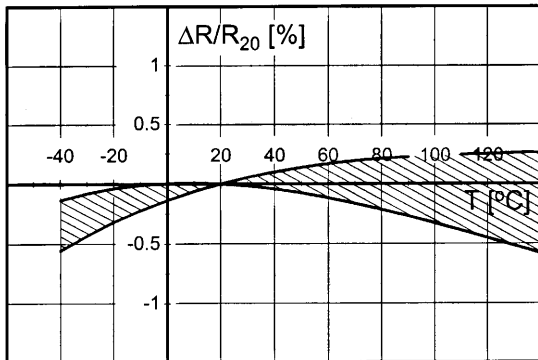
Applications:

- Shunt for power-metering
- Battery current sensing
- Current sensing in automotive applications

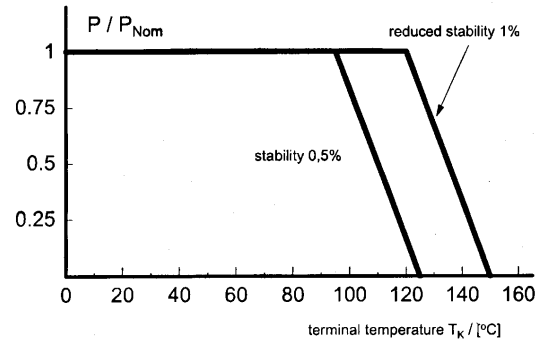
Technical data:

Resistance value	0,3 mOhm for SH300
Tolerance	+/- 10 %
Temperature coefficient	< 20 ppm/K (20°C to 60°C)
Applicable temperature range	-55 to +125°C
Load	3 Watt
Max. pulse power	100 Watt / 0,1 s
Permanent current	60 - 80A
Internal heat resistance	< 10 K/W
Inductance	< 1 nH
Average lin. thermal expansion coefficient	18 x 10 ⁻⁶ /K
Long term stability (nominal load)	Deviation < 0.3% after 1000h at T _k = 80°C
Max. solder temperature	Up to 350°C/30 s or 250°C/10min.
Assembly	Soldering or welding on copper
Mounting position	Vertical to PCB
Weight	approx. 10g

CUMnNi – precision resistors for energy metering Type series EM-SH



Temperature dependence of the electrical resistance of CuMnNi-resistors



Power derating

Dimensions for SH300:

